Fig. 1

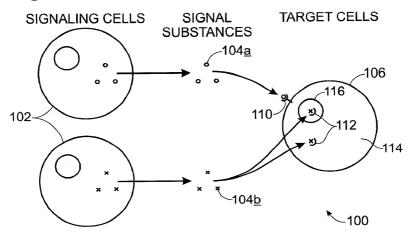


Fig. 2

G-PROTEIN-LINKED RECEPTOR MECHANISM

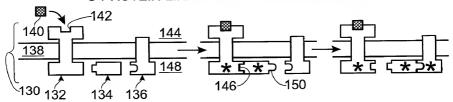
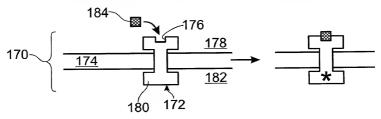


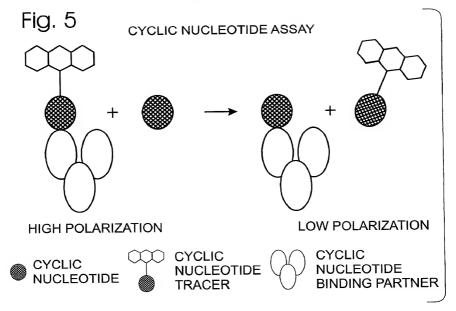
Fig. 3

ENZYME-LINKED RECEPTOR MECHANISM



2/11 <u>(a</u>) OFF SIGNAL ↓ OUT SIGNAL IN GTP-BINDING PATHWAY GDP INTRACELLULAR SIGNALING PATHWAYS Z O മ **GDP**★ GTP, OFF A PHOSPHORYLATION PATHWAY SIGNAL ▼IN SIGNAL OUT Z O **ADP**▲ ATP, ACTIVE PROTEIN INACTIVE PROTEIN

Fig. 4



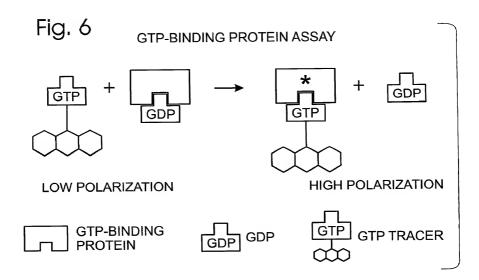


Fig. 7A

fluorescein-ITC-1,4-DACHsuccinimidyl cAMP

fluorescein-ITC-1,2-DACHsuccinimidyl cAMP

Fig. 7B

carboxyfluorescein-1,4-DACHsuccinimidyl cAMP

carboxyfluorescein-1,2-DACHsuccinimidyl cAMP

Fig. 8A

fluorescein-ITC-1,4-DACHsuccinimidyl cGMP

fluorescein-ITC-1,2-DACHsuccinimidyl cGMP

Fig. 8B

carboxyfluorescein-1,4-DACHsuccinimidyl cGMP

carboxyfluorescein-1,2-DACHsuccinimidyl cGMP

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	1 [cAMP CALIBRATORS]	2 [CONTROLS]	3 [SAMPLES]
⋖	10 µL BUFFER 10 µL CAMP Ab WORKING STOCK 10 µL 10 µM CALIBRATOR 10 µL CAMP TRACER WORKING STOCK	40μL BUFFER	10μL BUFFER 10μL cAMP Ab WORKING STOCK 10μL SAMPLE 1 10μL cAMP TRACER WORKING STOCK
В	->	→	→
O	10 µL BUFFER 10 µL CAMP Ab WORKING STOCK 10 µL 3.33 µM CALIBRATOR 10 µL CAMP TRACER WORKING STOCK	→	10 μL BUFFER 10 μL CAMP Ab WORKING STOCK 10 μL SAMPLE 2 10 μL CAMP TRACER WORKING STOCK
Ω	-	→	-
Ш	10 μL BUFFER 10 μL cAMP Ab WORKING STOCK 10 μL 1.11 μM CALIBRATOR 10 μL cAMP TRACER WORKING STOCK	30 μL BUFFER 10 μL CAMP Ab WORKING STOCK 10 μL CAMP LE 3 10 μL CAMP TRACER WORKING STOCK	10 µL BUFFER 10 µL CAMP Ab WORKING STOCK 10 µL SAMPLE 3 10 µL CAMP TRACER WORKING STOCK
Щ	->	→	-
ഗ	G 10 µL BUFFER 10 µL cAMP Ab WORKING STOCK 10 µL 0.37 µM CALIBRATOR 10 µL cAMP TRACER WORKING STOCK	→	10 µL BUFFER 10 µL CAMP Ab WORKING STOCK 10 µL SAMPLE 4 10 µL CAMP TRACER WORKING STOCK
I	→	→	→

Fig. 9B

)) I —	1 [cAMP CALIBRATORS]	2 [CONTROLS]	3 [SAMPLES]
	10 μL BUFFER 10 μL cAMP Ab WORKING STOCK 10 μL 0.12 μM CALIBRATOR 10 μL cAMP TRACER WORKING STOCK	30 μL BUFFER 10 μL TRACER WORKING STOCK	10 μL BUFFER 10 μL cAMP Ab WORKING STOCK 10 μL SAMPLE 5 10 μL cAMP TRACER WORKING STOCK
	-	-	→
	10 μL BUFFER 10 μL cAMP Ab WORKING STOCK 10 μL 0.041 μM CALIBRATOR 10 μL cAMP TRACER WORKING STOCK	→	10 μL BUFFER 10 μL cAMP Ab WORKING STOCK 10 μL SAMPLE 6 10 μL cAMP TRACER WORKING STOCK
I	→	→	→
1	10 μL BUFFER 10 μL CAMP Ab WORKING STOCK 10 μL 0.014 μM CALIBRATOR 10 μL CAMP TRACER WORKING STOCK	20 μL BUFFER10 μL CAMP Ab WORKING STOCK10 μL CAMP Ab WORKING STOCK10 μL CAMP TRACER WORKING STOCK	10 μL BUFFER 10 μL cAMP Ab WORKING STOCK 10 μL SAMPLE 7 10 μL cAMP TRACER WORKING STO
	->	->	→
	10 μL BUFFER 10 μL CAMP Ab WORKING STOCK 10 μL 0.005 μM CALIBRATOR 10 μL CAMP TRACER WORKING STOCK		10 μL BUFFER 10 μL cAMP Ab WORKING STOCK 10 μL SAMPLE 8 10 μL cAMP TRACER WORKING STOCK
		→	>

